6/7/3
DIALOG(R)File 351:Derwent WPI
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007305764
WPI Acc No: 1987-302771/##198743##
Stable ##cement## dispersant - comprises water-soluble or-dispersible polyvinyl polymer contg. hydrophilic and hydrophobic units
Patent Assignee: TAKEMOTO OIL & FAT CO LTD (##TAKT)##
Number of Countries: 001 Number of Patents: 002
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 62212252	A	19870918	JP 8652978	A	19860311	198743 B
JP 94017257	B2	19940309	JP 8652978	A	19860311	199413

Priority Applications (No Type Date): JP 8652978 A 19860311
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 62212252	A		6		
JP 94017257	B2		6	C04B-024/26	Based on patent JP 62212252

Abstract (Basic): JP 62212252 A The dispersant comprises a water-soluble or -dispersible vinyl polymer contg. a hydrophillic unit of formula (I), another hydrophillic of formula (II), and a hydrophobic unit of formula (III). R1, R2 and R3 are H or CH3, M1 and M2 are H, alkali or alkaline earth metal, or alkanolamine, X is COOR5, CN, C6H5 or OCOCH3, and n is zero or 1.
ADVANTAGE - Exhibits excellent dispersibility of ##cement## particles with little change in dispersibility with lapse of time, etc.
0/0
Derwent Class: A93; L02
International Patent Class (Main): C04B-024/26



Document ID: [redacted]

Title: DISPERSING AGENT FOR CEMENT

Assignee: TAKEMOTO OIL & FAT CO LTD

Inventor: KINOSHITA MITSUO ; SHIMONO TOSHIHIDE ; YAMAGUCHI SHOZO ; YAMAMOTO TSUNEO

US Class:

Int'l Class: [5] C04B 24/26 A; C04B 28/02 B; C08F 220/06 B; C08F 220/26 B; C08F 228/02 B

Issue Date: 02/12/1993

Filing Date: 03/04/1988

Abstract: PURPOSE: To obtain a dispersing agent for cement with little change with time elasped, having large dispersing flowability, by polymerizing plural kinds of specified monomers contg. carboxyl group in an aq. soln. in a specified proportion.

CONSTITUTION: The monomers A, B and C of formulae 1W3 (where, R1, R2, R3 and R4 are H or CH3, R5 is 1W3C alkyl group, M1 and M2 are alkali metal, alkaline earth metal, ammonium group or org. amine residue, and n is integer of 5W25) are polymerized in an aq. soln. to obtain water-soluble vinyl copolymer. At that time, the reacting proportion is monomer A/monomer B/monomer C=(10W50)/(3W25)/(30W40) (wt. ratio). The concn. of monomer in the aq. soln. is suitably 10W40wt.%, the reaction temp. is 50W70°C and the number mean mol.wt. of the obtd. copolymer is preferably 2,000W15,000. The dispersing flowability is revealed with a small amt. of the dispersing agent obtd. by using the water-soluble vinyl copolymer as main component and besides, the dispersing agent for cement with dispersing flowability having little change with time elapsed, can be obtd.

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NOTE: This Examined Patent Application (Kokoku) results from Published Japanese Application (Kokai) [redacted]A2.

[redacted]

Title: DISPERSING AGENT FOR CEMENT

Assignee: TAKEMOTO OIL & FAT CO LTD

Inventor: KINOSHITA MITSUO ; SHIMONO TOSHIHIDE ; YAMAGUCHI SHOZO ; YAMAMOTO TSUNEO

US Class:

Int'l Class: C04B 24/26 A

Issue Date: 09/11/1989

Filing Date: 03/04/1988

Abstract: PURPOSE: To obtain a dispersing agent for cement with little change with time elasped, having large dispersing flowability, by polymerizing plural kinds of specified monomers contg. carboxyl group in an aq. soln. in a specified proportion.

CONSTITUTION: The monomers A, B and C of formulae 1W3 (where, R1, R2, R3 and R4 are H or CH3, R5 is 1W3C alkyl group, M1 and M2 are alkali metal, alkaline earth metal, ammonium group or org. amine residue, and n is integer of 5W25) are polymerized in an aq. soln. to obtain water-soluble vinyl copolymer. At that time, the reacting proportion is monomer A/monomer B/monomer C=(10W50)/(3W25)/(30W40) (wt. ratio). The concn. of monomer in the aq. soln. is suitably 10W40wt.%, the reaction temp. is 50W70°C and the number mean mol.wt. of the obtd. copolymer is preferably 2,000W15,000. The dispersing flowability is revealed with a small amt. of the dispersing agent obtd. by using the water-soluble vinyl copolymer as main component and besides, the dispersing agent for cement with dispersing flowability having little change with time elapsed, can be obtd.

Document ID: [redacted]

Title: HIGH-STRENGTH CONCRETE COMPOSITION

Assignee: TAKEMOTO OIL & FAT CO LTD ; TAKENAKA KOMUTEN CO LTD

Invent r: YONEZAWA TOSHIO ; MITSUI TATEO ; KINOSHITA MITSUO ; SHIMONO TOSHIHIDE ; YAMAGUCHI SHOZO; YAMAMOTO TSUNEO

US Class:

Int'l Class: [5] C04B 28/02 A; C04B 28/02 J; C04B 24/26 J; C04B 24/32 J; C04B 14/04 J

Issue Date: 05/28/1993

Filing Date: 09/02/1989

Abstract: PURPOSE: To obtain a high-strength concrete composition, containing a cement dispersant composed of a water-soluble vinyl copolymer in a prescribed amount based on cement solid content at respective specified unit amount of water and water/cement ratio and improved in application and operating efficiency.

CONSTITUTION: The aforementioned concrete composition contains at least cement, fine and coarse aggregates, water and a cement dispersant. The above- mentioned concrete composition has 120-185kg/m3 unit amount of water and 20-40% water/cement ratio. Components of the aforementioned composition contain the cement dispersant composed of the following component (a) in an amount of 0. 15-3.0 pts.wt. based on 100 pts.wt. cement solid content. That is the aforementioned component (a) is a water-soluble vinyl copolymer at (57-10)/(3-25)/(85-40) copolymerization monomer weight ratio (A/B/C) of the separately described monomers. The above-mentioned concrete composition has a low viscosity and is capable of exhibiting high level of fluidity and excellent slump loss thereof and imparting proper amount of air and excellent compressive strength even when water is highly reduced to decrease the water/ cement ratio.

(C)1991,JPO&Japio

NOTE: This Examined Patent Application (Kokoku) results from Published Japanese Application (Kokai) [redacted] A2.

[redacted]

Document ID: [redacted]

Title: HIGH-STRENGTH CONCRETE COMPOSITION

Assignee: TAKEMOTO OIL & FAT CO LTD ; TAKENAKA KOMUTEN CO LTD

Inventor: YONEZAWA TOSHIO ; MITSUI TATEO ; KINOSHITA MITSUO ; SHIMONO TOSHIHIDE ; YAMAGUCHI SHOZO ; YAMAMOTO TSUNEO

US Class:

Int'l Class: C04B 28/02 A; C04B 28/02 J; C04B 24/26 J

Issue Date: 04/18/1991

Filing Date: 09/02/1989

Abstract: PURPOSE: To obtain a high-strength concrete composition, containing a cement dispersant composed of a water-soluble vinyl copolymer in a prescribed amount based on cement solid content at respective specified unit amount of water and water/cement ratio and improved in application and operating efficiency.

CONSTITUTION: The aforementioned concrete composition contains at least cement, fine and coarse aggregates, water and a cement dispersant. The above- mentioned concrete composition has 120-185kg/m3 unit amount of water and 20-40% water/cement ratio. Components of the aforementioned composition contain the cement dispersant composed of the following component (a) in an amount of 0. 15-3.0 pts.wt. based on 100 pts.wt. cement solid content. That is the aforementioned component (a) is a water-soluble vinyl copolymer at (57-10)/(3-25)/(85-40) copolymerization monomer weight ratio (A/B/C) of the separately described monomers. The above-mentioned concrete composition has a low viscosity and is capable of exhibiting high level of fluidity and excellent slump loss thereof and imparting proper amount of air and excellent compressive strength even when water is highly reduced to decrease the water/ cement ratio.

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